

EARLY LEARNING & K-12 COMMITTEE



SENATE DEMOCRATS
WASHINGTON STATE



Creating an equal education opportunity for all kids
a look at what's working

What Is Working



- Early learning
- Focus on teacher effectiveness
- Lower student/teacher ratio where research shows us it makes sense
- STEM pathway for our kids' and state's economic success

Early Learning

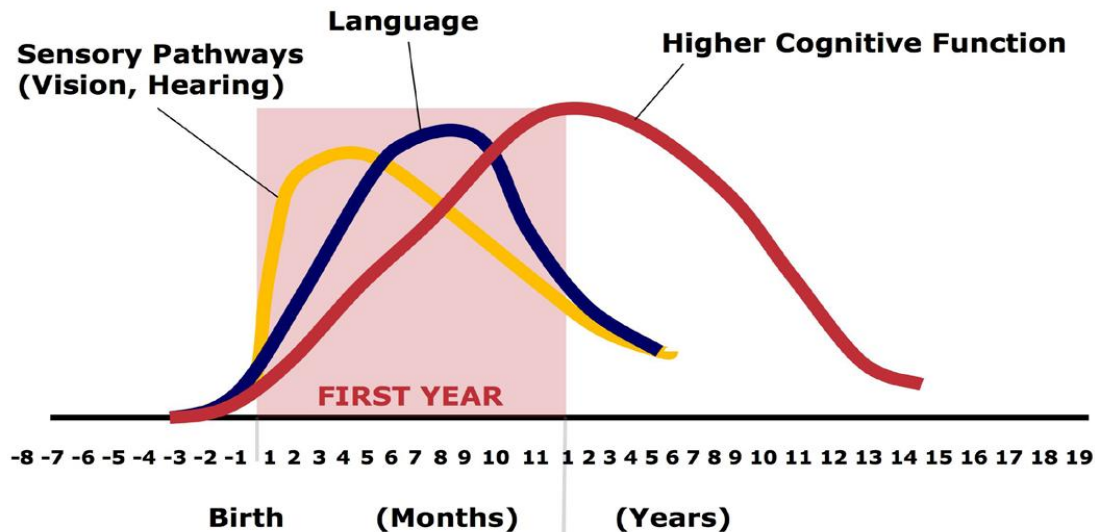
85% of brain development is completed by age three



Center on the Developing Child
HARVARD UNIVERSITY

Human Brain Development

Neural Connections for Different Functions Develop Sequentially



Early Learning - A Good Investment



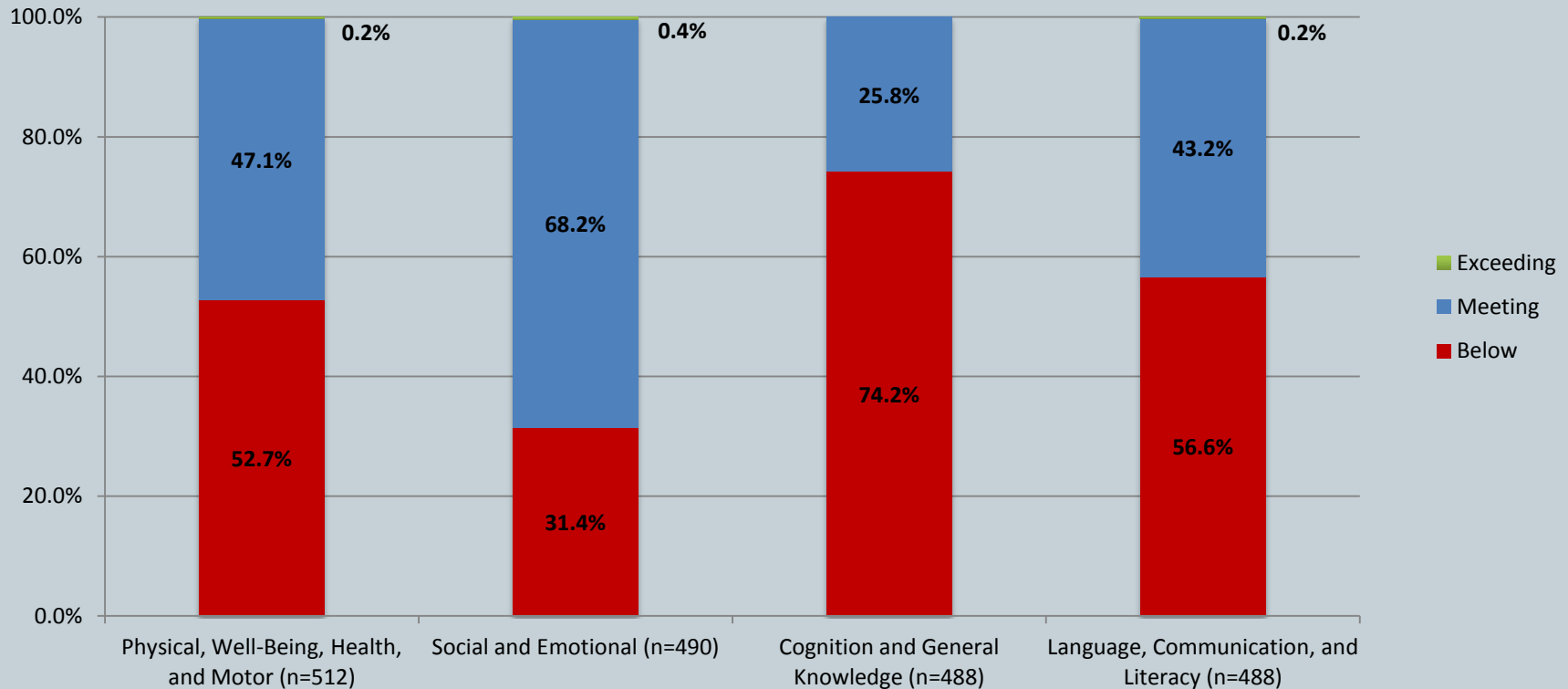
Continuing, positive impacts for kids, society and the economy

Outcomes for <u>LOW INCOME</u> 3 & 4 year olds	Number of Studies	Average Result
High School Graduation	10	On-time graduation increases from 62% to 68%
K-12 Grade Repetition	24	Percent repeating a grade drops from 13% to 8%.
K-12 Special Education	23	Percent using special ed drops from 12% to 8%
Standardized Test Scores	27	2 to 4 percentage point increase in met-standard rate
Crime	8	Pct. with conviction by age 30 drops from 24% to 17%
Public Assistance	3	No significant effect
Teen Births (under 18)	4	No significant effect
Child Abuse and Neglect	1	Pct. with a substantiated case drops from 12% to 7%

Not All Kids Enter School Ready To Learn



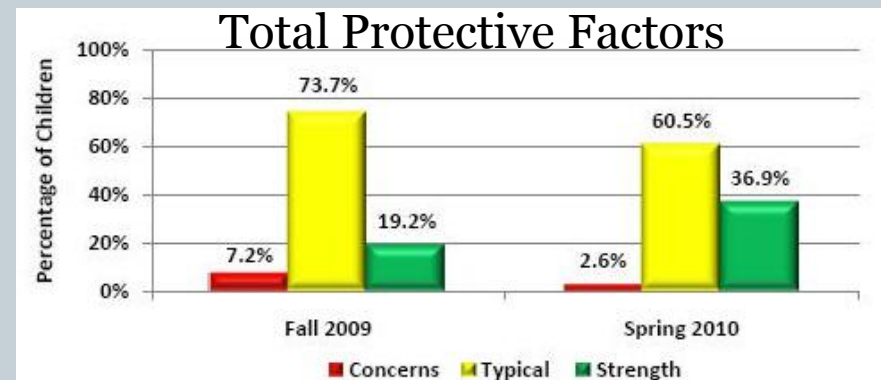
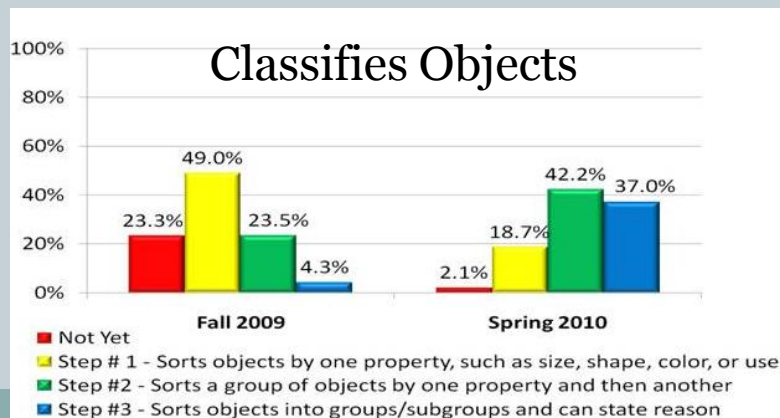
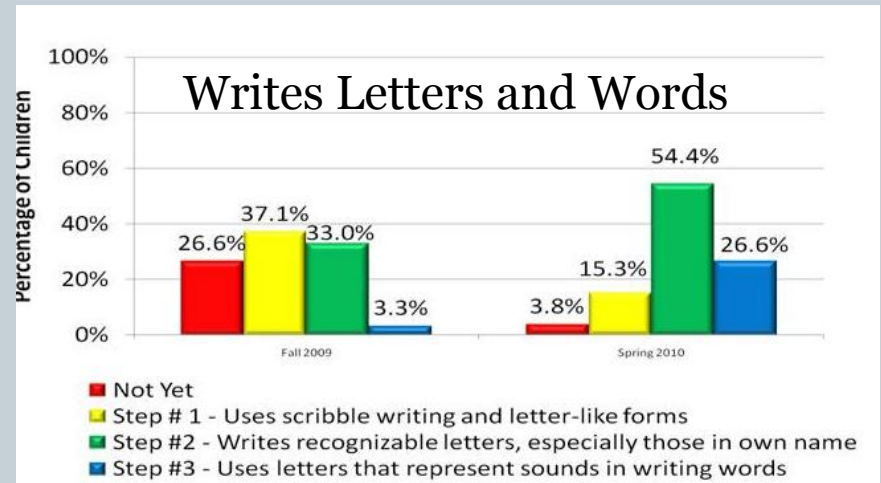
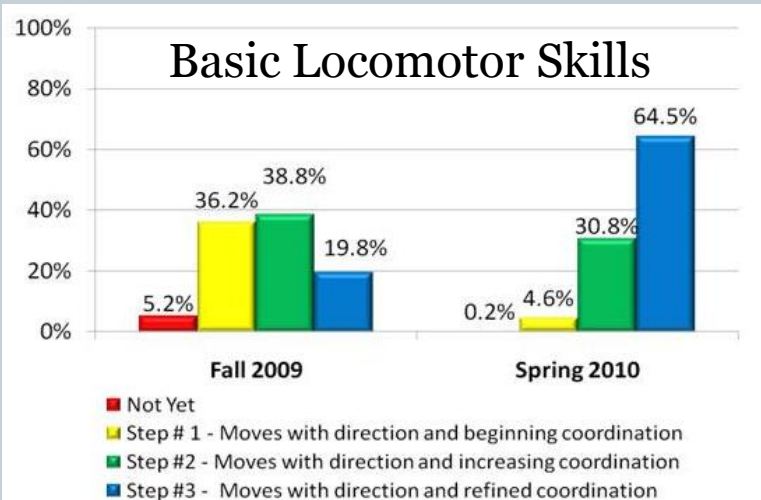
More than one-third of children enter kindergarten below expected skill levels



ECEAP – An Investment That Works



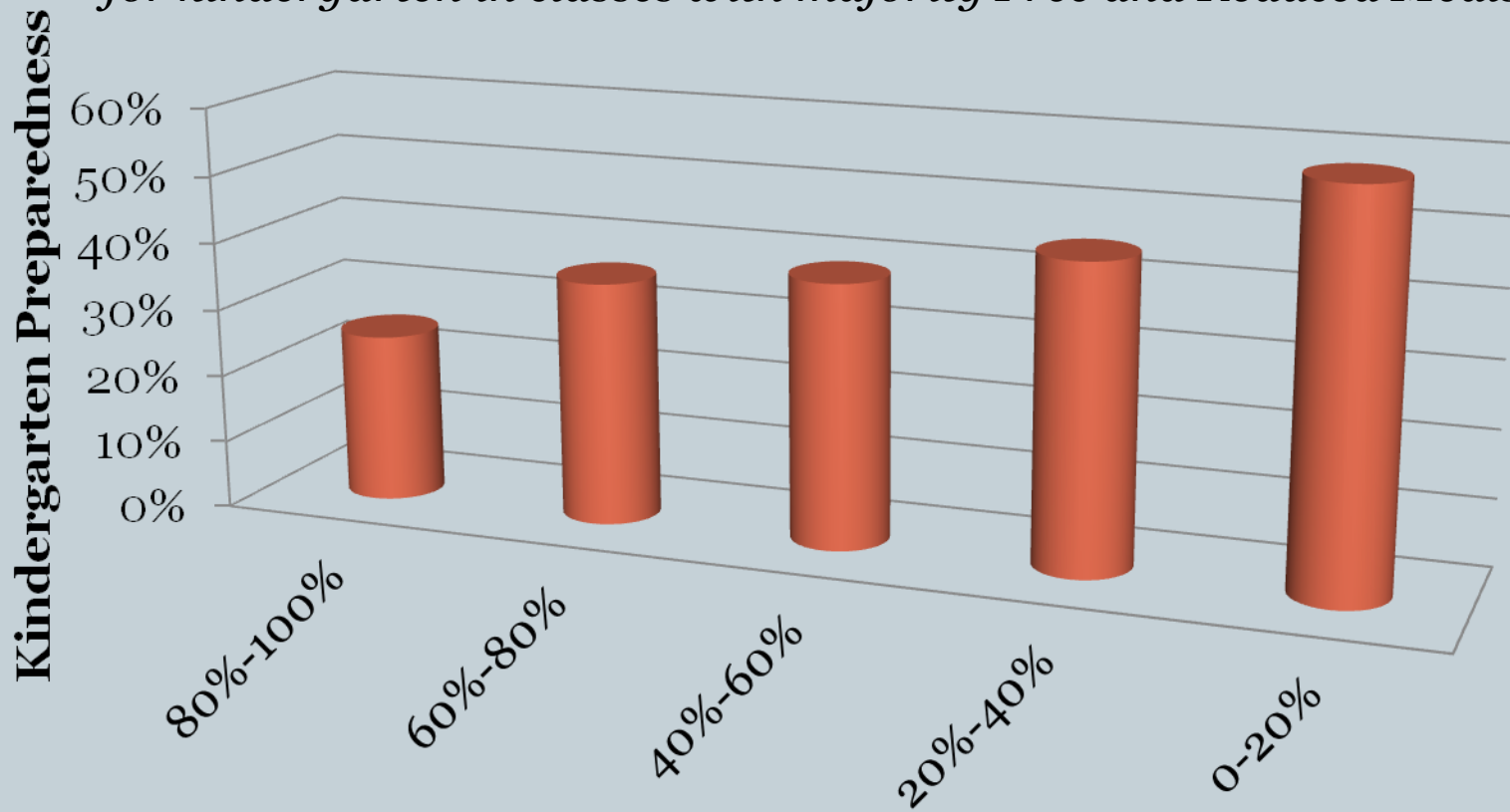
Learning outcomes - school year 2009-10



Kindergarten For The Highest Need



*Only 1 out of every 4 students were prepared
for kindergarten in classes with majority Free and Reduced Meals*

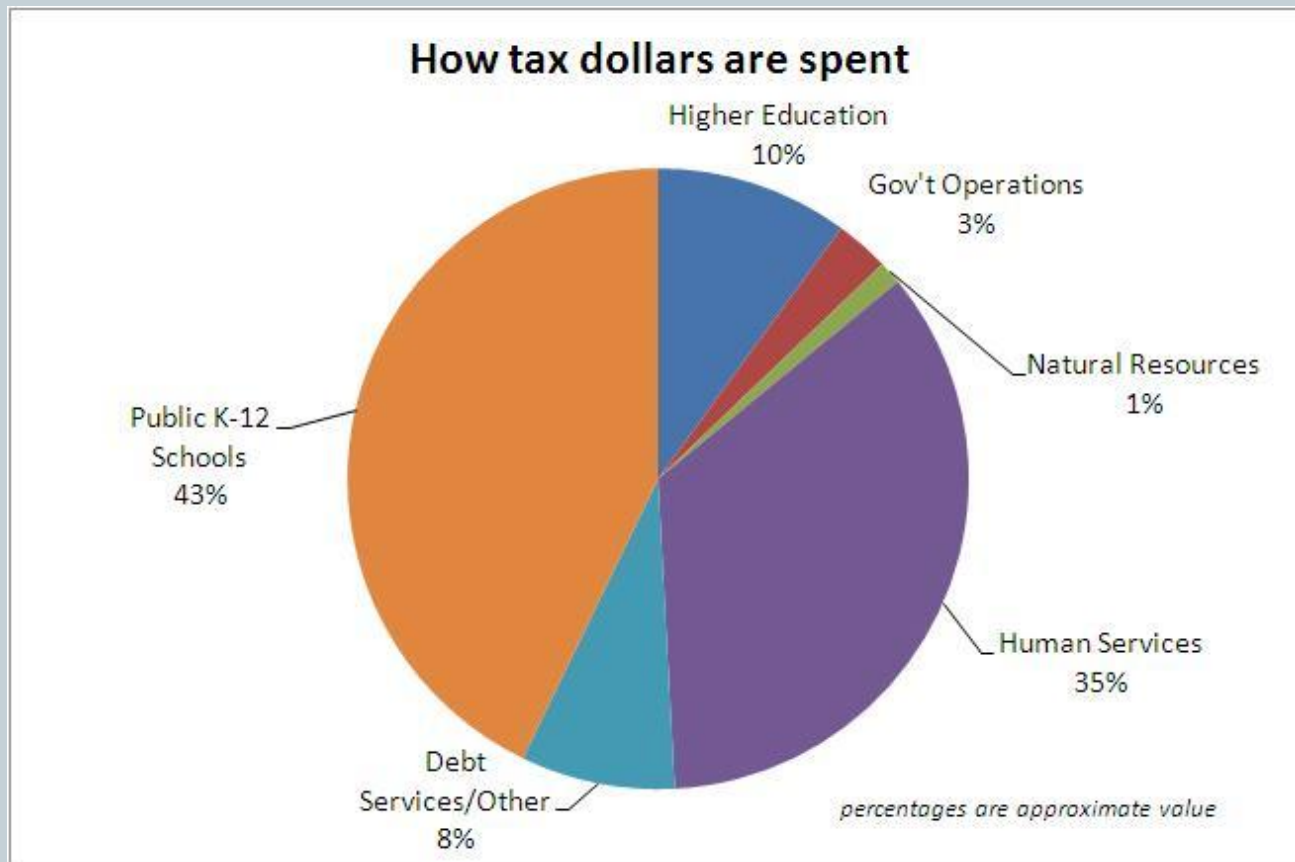


Free and Reduced Price Meal Rates

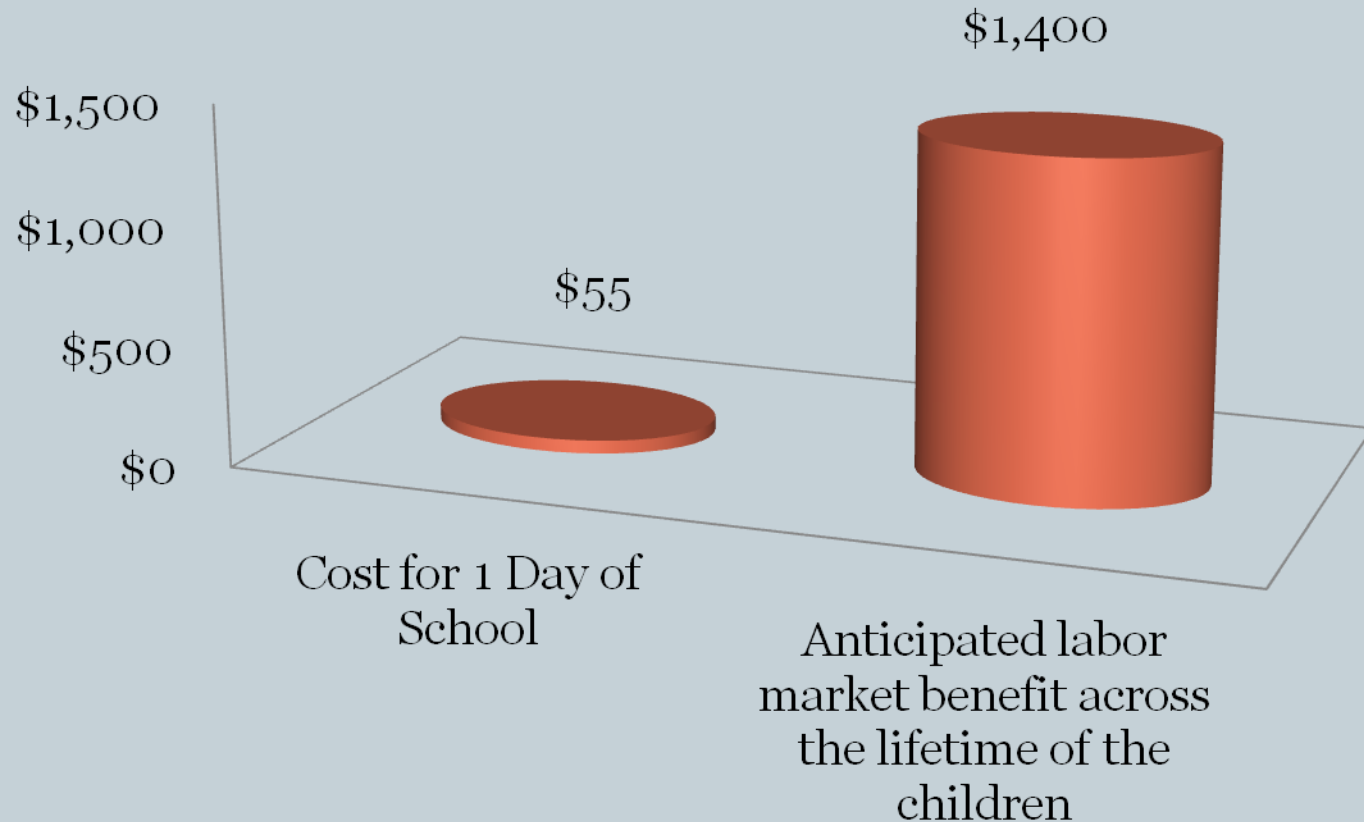
Education Investments Pay Off In The Future



2009-11 K-12 Budget: \$13.2 billion



Education Investments Pay Off In The Future

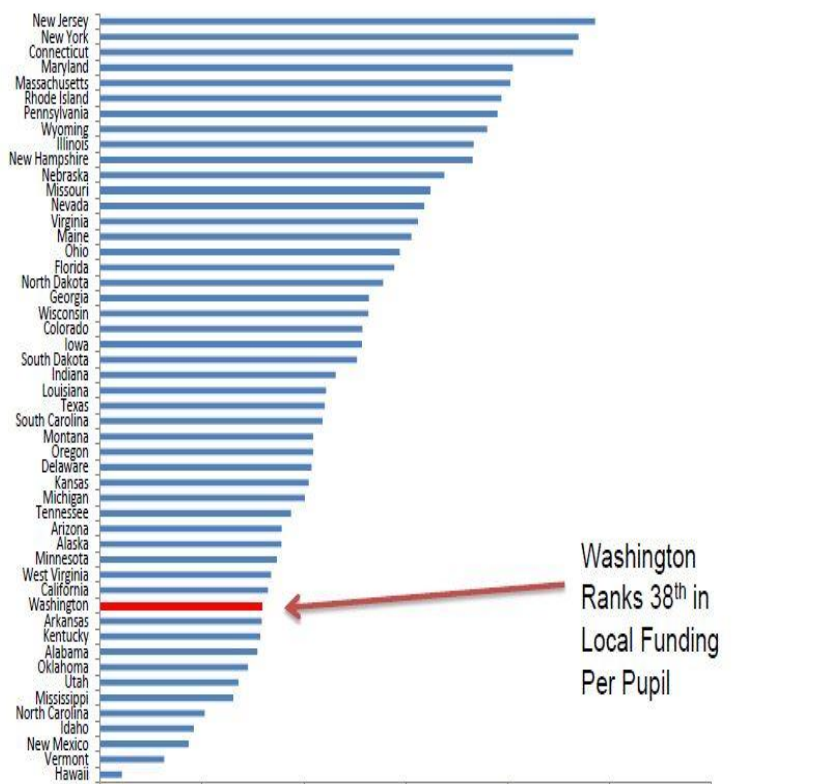


■ \$ in Millions

K-12 Funding – Equalizing Opportunity

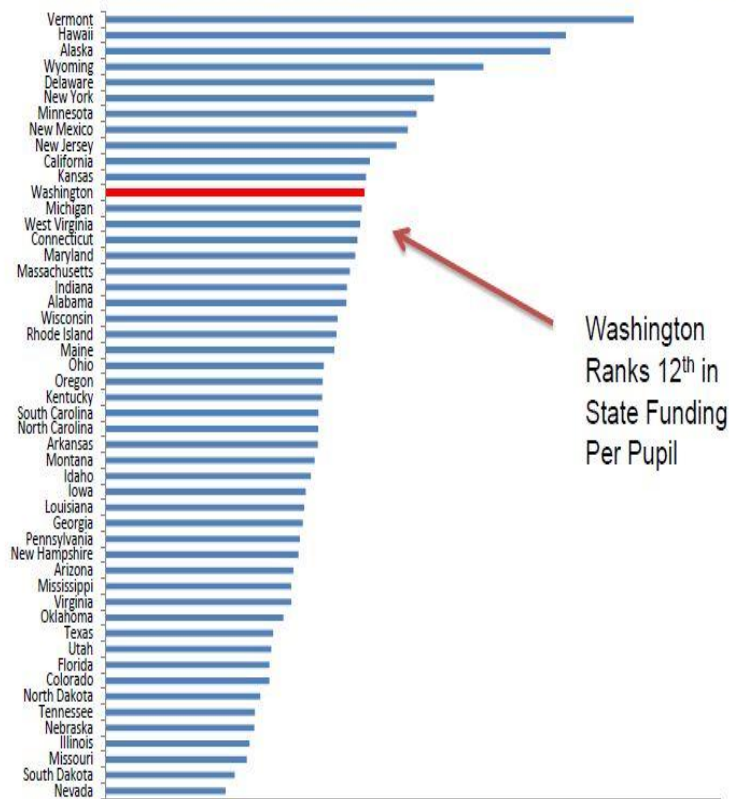
WA's K-12 funding model provides all students with equal opportunity for success

States ranked by per pupil revenues received from local sources: 2007–08



Washington
Ranks 38th in
Local Funding
Per Pupil

States ranked by per pupil revenues received from state sources: 2007–08



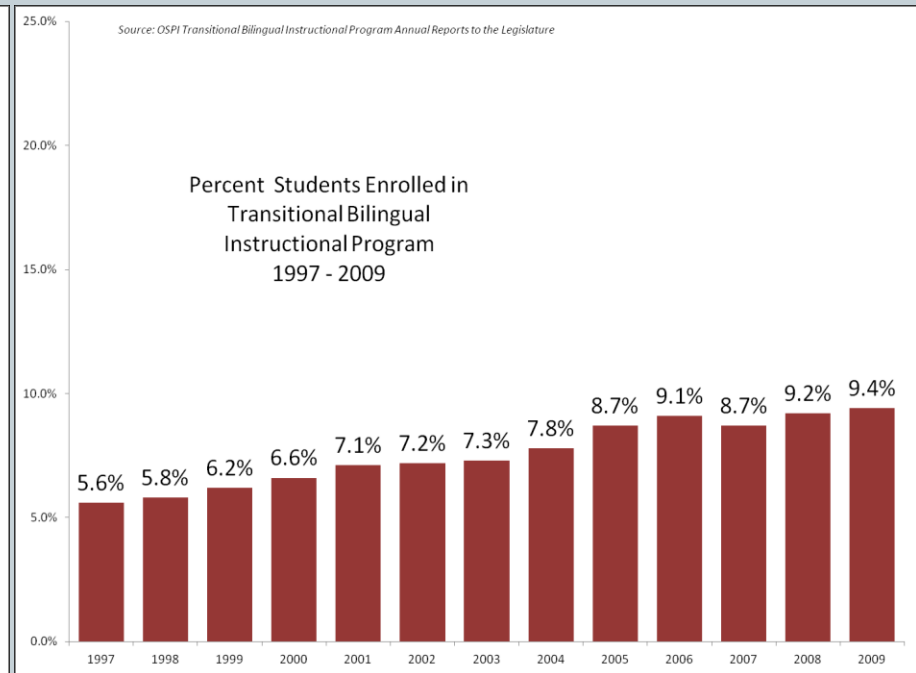
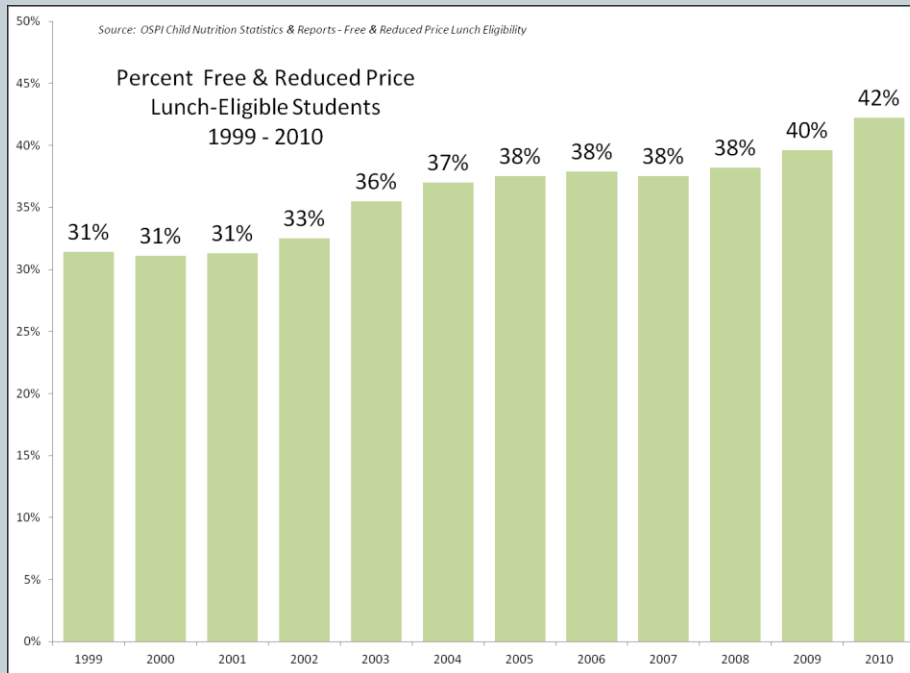
Washington
Ranks 12th in
State Funding
Per Pupil



K-12 Test Scores Increase

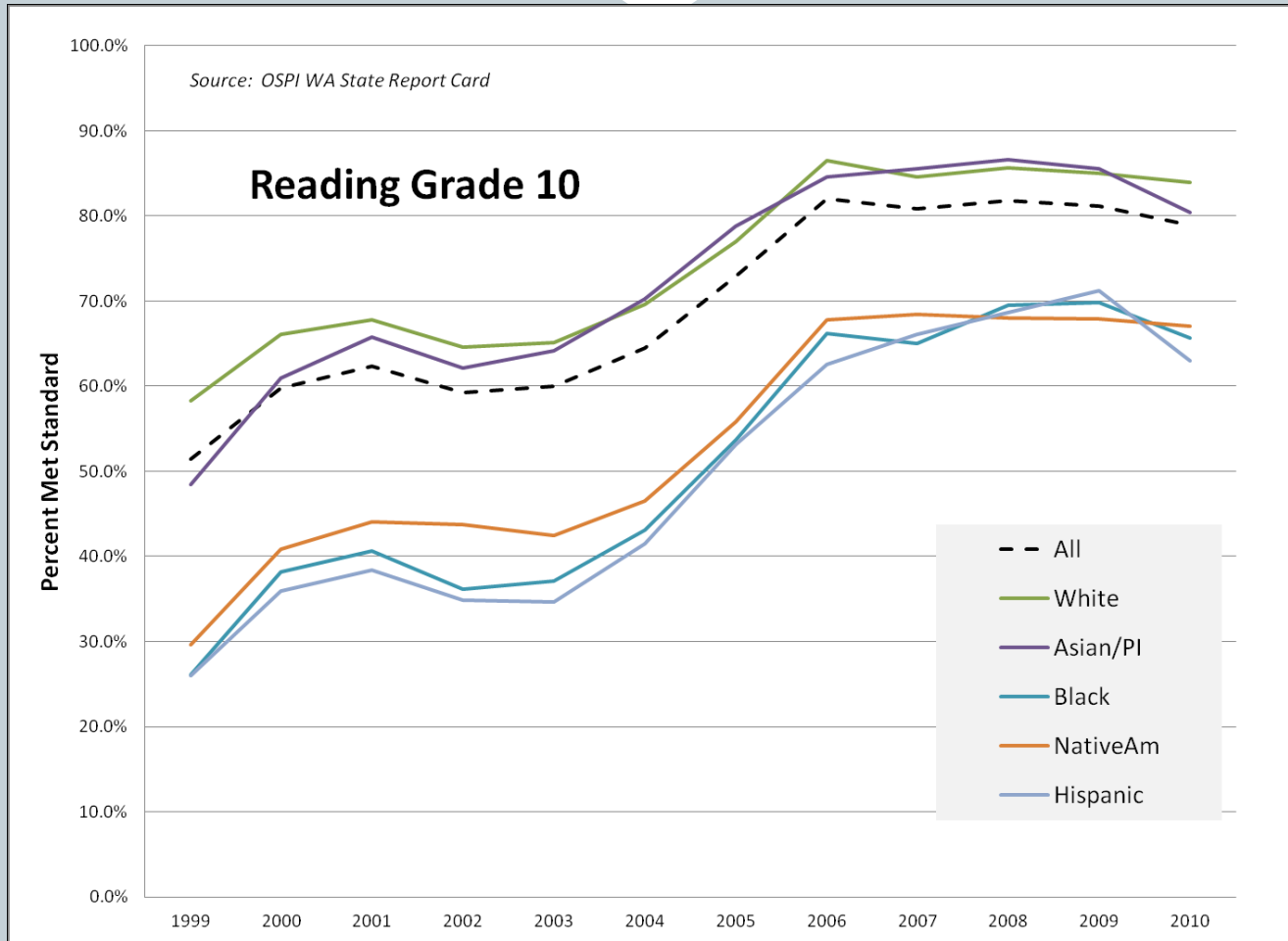


Despite increasing challenges faced by schools

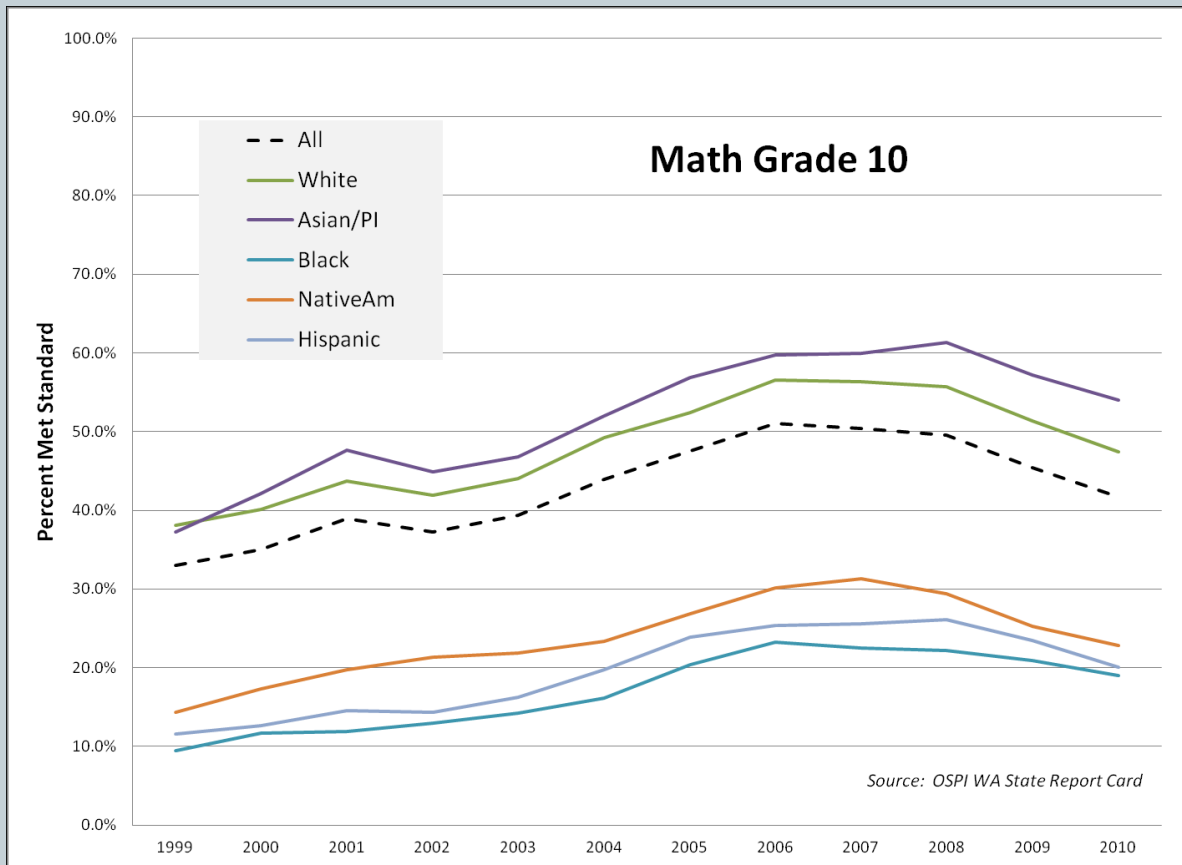


Schools continue to make progress

K-12 Test Scores Increase

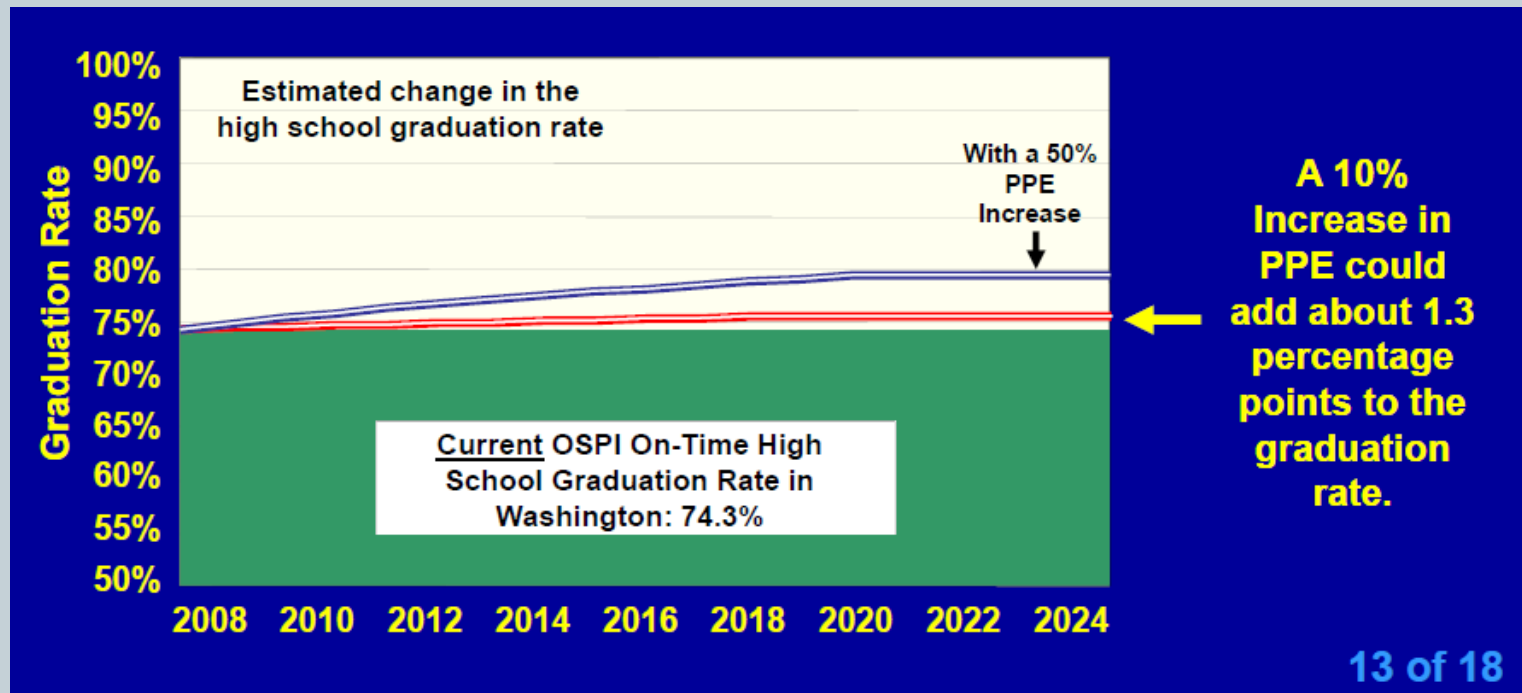


K-12 Test Scores Increase



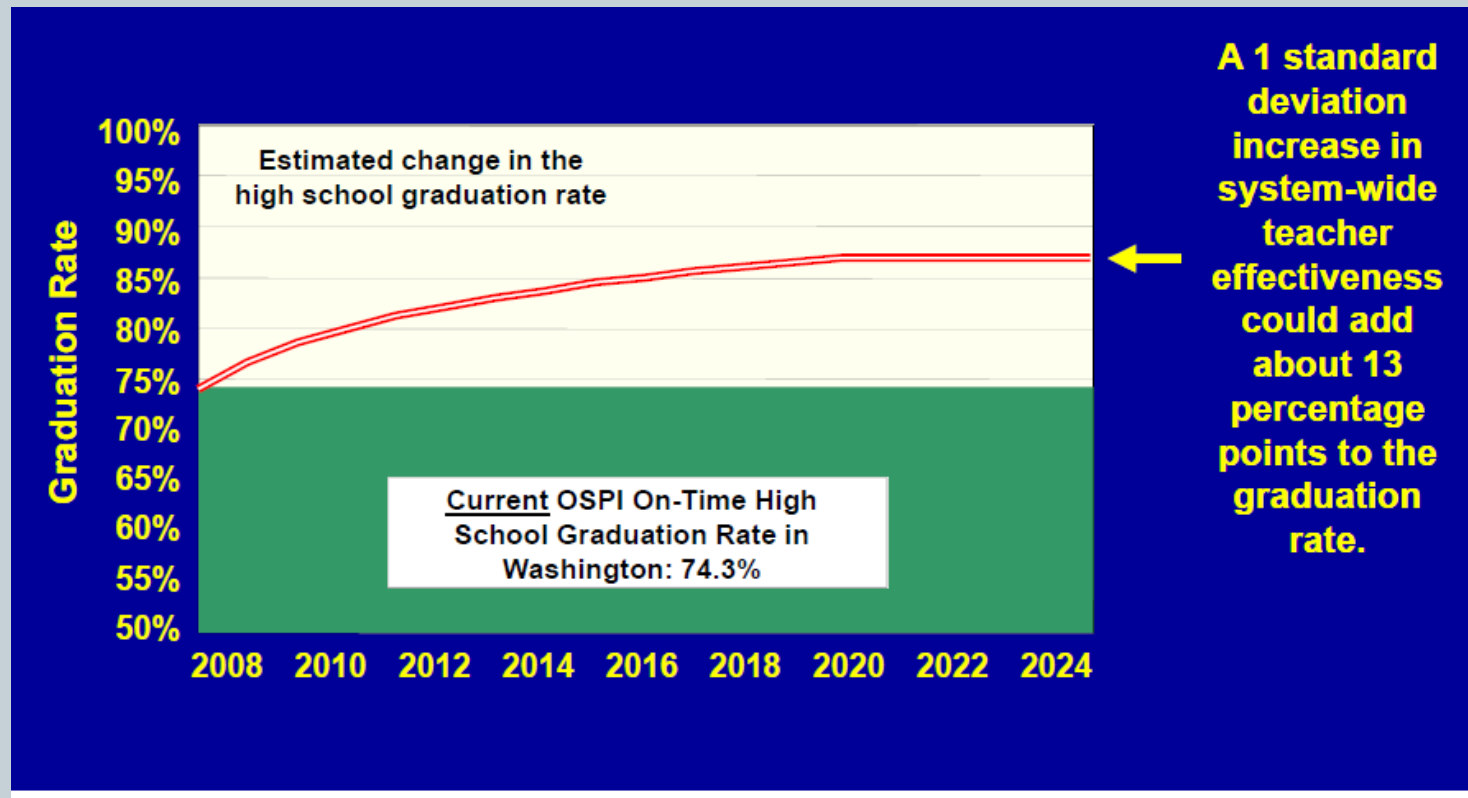
Research Tells Us What Works

Increasing per-pupil expenditures has a slight positive change on high school grad.



Research Tells Us What Works

- *But teacher effectiveness has a much greater impact.*

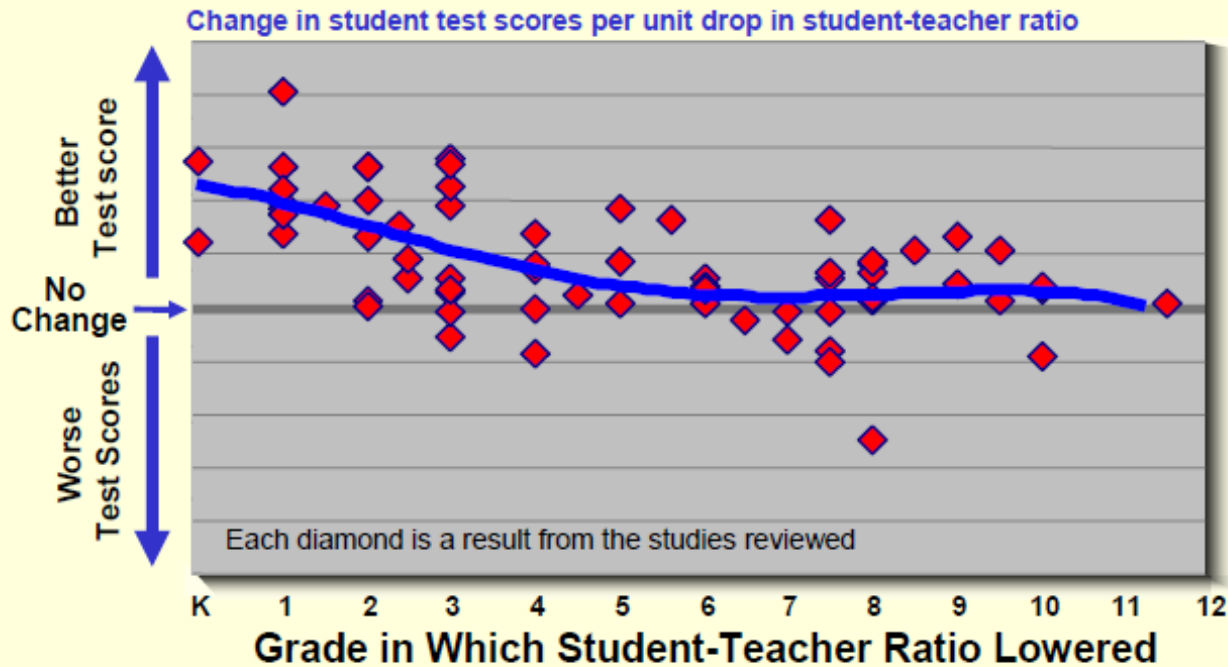


Class Size Matters



K-4 enhancements make a difference

The results of 38 statistically-sound studies (with 69 grade-level tests) of the effect of lower student-teacher ratios on test-score outcomes



* Effect Size Metric: the change in the standard deviation of test scores on standardized tests.

New Tools for Measuring Teacher Effectiveness



Certification System:

Successful teaching effectiveness must be demonstrated via ProTeach Portfolio before expiration date of teacher's 1st (residency) certificate, or they lose certification

4-tiered Teacher & Principal Evaluation System:

- Uses student growth data
- Piloted in 2010 and 2011
- Implemented statewide in 2013

Teacher/Principal Evaluation Pilot Sites



Pilot Sites

- Anacortes
- Central Valley
- Kennewick
- North Mason
- North Thurston
- Othello
- Snohomish
- Wenatchee



ESD 101 Consortium

- Almira
- Davenport
- Liberty
- Medical Lake
- Pullman
- Reardan-Edwall
- Ritzville
- Wilbur



STEM Focus In School Supports Our Economy



Local employers want to hire local graduates

STEM Occupation	2004 jobs	2014 jobs	Percent Change
Computer software engineer, systems software	12,600	17,220	37%
Computer & info scientists, research	940	1,270	35%
Computer software engineers, applications	21,270	28,610	36%
Computer programmers	12,440	16,620	34%
Technical writers	2,440	3,250	33%

STEM



Science, Technology, Engineering & Math (STEM):

Careers kids can get excited about in the classroom!

It's about:

- Preparing our kids for high demand careers
- Partnering with professionals/industry to get kids excited about STEM:
 - Technology Access Foundation (TAF), Federal Way
 - DELTA High School, Kennewick
 - SCI-MA-TECH, Brier Terrace Middle School, Edmonds



Let's Preserve What's Working In Education



- Early learning
 - Early Childhood Education and Assistance Program
 - Full Day Kindergarten
- Focus on teacher effectiveness
 - Evaluation pilot sites
 - Certification
- Lower student/teacher ratio where research shows us it makes sense
 - Preserve K-4 enhancements to extent possible
- STEM pathway for our kids' and state's economic success
- Overview of bills
 - Ed governance
 - Add technology to definition of education
 - Launch program
- Don't cut ed programs that are working

It's For Our Kids

